SEQUENCE LISTING

The Trustees of the University of Pennsylvania <110> Roy, Soumitra Wilson, James M. Methods of Generating Chimeric Adenoviruses and Uses For Such <120> Chimeric Adenoviruses <130> UPN-P3067PCT <150> US 10/465,302 <151> 2003-06-20 <150> US 60/566,212 <151> 2004-04-28 <150> US 60/575,429 <151> 2004-05-28 <160> 18 <170> PatentIn version 3.2 <210> <211> 36462 <212> DNA <213> chimpanzee adenovirus serotype Pan5 <400> catcatcaat aatatacctc aaacttttgg tgcgcgttaa tatgcaaatg aggtatttga 60 120 tgacgttttg atgacgtggc cgtgaggcgg agccggtttg caagttctcg tgggaaaagt 180 gacgtcaaac gaggtgtggt ttgaacacgg aaatactcaa ttttcccgcg ctctctgaca 240 ggaaatgagg tgtttctggg cggatgcaag tgaaaacggg ccattttcgc gcgaaaactg 300 aatgaggaag tgaaaatctg agtaattccg cgtttatggc agggaggagt atttgccgag 360 ggccgagtag actttgaccg attacgtggg ggtttcgatt accgtatttt tcacctaaat 420 ttccgcgtac ggtgtcaaag tccggtgttt ttacgtaggt gtcagctgat cgccagggta 480 tttaaacctg cgctctctag tcaagaggcc actcttgagt gccagcgagt agagtttct 540 cctccgcgcc gcgagtcaga tctacacttt gaaagatgag gcacctgaga gacctgcccg 600 gtaatgtttt cctggctact gggaacgaga ttctggaact ggtggtggac gccatgatgg 660 gtgacgaccc tccggagccc cctaccccat ttgaagcgcc ttcgctgtac gatttgtatg 720 atctggaggt ggatgtgccc gagaacgacc ccaacgagga ggcggtgaat gatttgttta 780 gcgatgccgc gctgctggct gccgagcagg ctaatacgga ctctggctca gacagcgatt 840 cctctctcca taccccgaga cccggcagag gtgagaaaaa gatccccgag cttaaagggg 900 aagagctcga cctgcgctgc tatgaggaat gcttgcctcc gagcgatgat gaggaggacg 960 aggaggcgat tcgagctgca gcgaaccagg gagtgaaaac agcgagcgag ggctttagcc 1020 tggactgtcc tactctgccc ggacacggct gtaagtcttg tgaatttcat cgcatgaata 1080 ctggagataa gaatgtgatg tgtgccctgt gctatatgag agcttacaac cattgtgttt 1140 acagtaagtg tgattaactt tagctgggga ggcagagggt gactgggtgc tgactggttt 1200

Page 1

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Page 43	

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Page 46	_

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ttc Phe	ttc Phe 1040	AIA	atc Ile	aaa Lys	aac Asn	ctc Leu 1045	ctg Leu	ctc Leu	ctc Leu	ccc Pro	ggg Gly 1050	Ser	tac Tyr	acc Thr	19891
tac Tyr	gag Glu 1055	٠.,	aac Asn	ttc Phe	cgc Arg	aag Lys 1060	gac Asp	gtc Val	aac Asn	atg Met	atc Ile 1065	Leu	cag Gln	agc Ser	19936
	ctg Leu 1070	ggt Gly	aac Asn	gac Asp	ctc Leu	cgc Arg 1075	gtc Val	gac Asp	ggg Gly	gcc Ala	agc Ser 1080	gtc Val	agg Arg	ttc Phe	19981
-	agc Ser 1085	atc Ile	aac Asn	ctg Leu	tac Tyr	gcc Ala 1090	aac Asn	ttc Phe	ttc Phe	ccc Pro	atg Met 1095	gcc Ala	cac His	aac Asn	20026
acc Thr	gcc Ala 1100	tcc Ser	acg Thr	ctc Leu	gag Glu	gcc Ala 1105	atg Met	ctg Leu	cgc Arg	aac Asn	gac Asp 1110	Thr	aac Asn	gac Asp	20071
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atc Ile	ccc Pro 1130	gcc Ala	aac Asn	gcc Ala	acc Thr	agc Ser 1135	gtg Val	ccc Pro	atc Ile	tcc Ser	att Ile 1140	ccc Pro	tcg Ser	cgg Arg	20161
aac Asn	tgg Trp 1145	gcc Ala	gcc Ala	ttc Phe	cgg Arg	ggc Gly 1150	tgg Trp	agc Ser	ttc Phe	acc Thr	cgg Arg 1155	ctc Leu	aag Lys	acc Thr	20206
Lys	1160	acc Thr	ccc Pro	tct Ser	ctg Leu	ggc Gly 1165	tcc Ser	ggc Gly	ttc Phe	gat Asp	ccc Pro 1170	tac Tyr	ttc Phe	acc Thr	20251
Tyr	tcg Ser 1175					tac Tyr 1180	LCU	ASh	GIY	ınr	1185	Tyr	Leu	Asn	20296
cac His	act Thr 1190	ttc Phe	aag Lys	aag Lys	gtc Val	tcc Ser 1195	atc Ile	atg Met	ttc Phe	gac Asp	tcc Ser 1200	tcc Ser	gtc Val	agc Ser	20341
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aag Lys	1220	acc Thr	gtg Val	gac Asp	ggg Gly	gaa Glu 1225	ggg Gly	tac Tyr	aac Asn	gtg Val	gcc Ala 1230	cag Gln	tgc Cys	aac Asn	20431
atg Met	Thr 1235	Lys	Asp	Trp		Leu 1240	TIE	GIII	мет	Leu	agc Ser 1245	His	Tyr	Asn	20476
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Met	tac Tyr 1265	tct Ser	ttc Phe	ttc Phe	Arg A	aac Asn 1270	ttc Phe	Gin	ccc Pro age :	Met		cgc Arg	cag Gln	gtg Val	20566

;	gtc Val	gac Asp 1280	Thr	acc Thr	acc Thr	tac Tyr	acc Thr 1285	gac Asp	tac Tyr	aaa Lys	aac Asn	gtc Val 1290	Thr	ctc Leu	CCC Pro	20611
1	ttc Phe	cag Gln 1295	1112	aac Asn	aac Asn	tcg Ser	ggg Gly 1300	ttc Phe	gtg Val	gga Gly	tac Tyr	atg Met 1305	ggc Gly	ccc Pro	acc Thr	20656
		cgc Arg 1310		ggg Gly	cag Gln	gcc Ala	tac Tyr 1315	ccc Pro	gcc Ala	aac Asn	tac Tyr	CCC Pro 1320	tac Tyr	ccc Pro	ctg Leu	20701
ā	atc Ile	ggc Gly 1325	aag Lys	acc Thr	gcc Ala	gtg Val	ccc Pro 1330	agc Ser	ctc Leu	acg Thr	cag Gln	aaa Lys 1335	aag Lys	ttc Phe	ctc Leu	20746
t	tgc Cys	gac Asp 1340	cgc Arg	acc Thr	atg Met	tgg Trp	cgc Arg 1345	atc Ile	ccc Pro	ttc Phe	tcc Ser	ant	aac Asn	ttc Phe	atg Met	20791
t S	cc Ser	atg Met 1355	ggg Gly	gcg Ala	ctc Leu	acc Thr	gac Asp 1360	ctg Leu	ggg Gly	cag Gln	Asn	atg	ctg Leu	tac Tyr	gcc Ala	20836
a A	sn	tcc Ser 1370	gcc Ala	cac His	gcc Ala	ctc Leu		atg Met	acc Thr	ttc Phe	gag	gtg	gac Asp	CCC Pro	atg Met	20881
· A	sp	gag Glu 1385	ccc Pro	acg Thr	ctt Leu	ctc Leu	tat Tyr 1390	gtt Val	ctg Leu	ttc Phe	Glu	ata	ttc Phe	gac Asp	gtc Val	20926
g V	al.	cgc Arg 1400	atc Ile	cac His	cag Gln	Pro	cac His 1405	cgc Arg	ggc Gly	gtc Val	atc Ile	gag	gcc Ala	gtc Val	tac Tyr	20971
C.	tg eu		acg Thr	ccg Pro	ttc Phe	ser	gcc Ala 1420	ggt Gly	aac Asn	gcc Ala	acc a	acc	taa	ggag	ggggcc	21020
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1460 1465 1470 Ser Leu
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1485
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1510 1515 ATA ASI
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1520 1525 Ala Pro Leu Thr Leu Gln Ser Page 120
rage 120

ga As	t ac p Th	t tta r Leu 153	aa As 5	t ct [.]	t gci u Ala	tgi a Cys	aac Asn 154	Ā	c cc a Pr	a ct o Le	t ac u Th	c gtg r Val 154	G1	a g n A	ac sp	27557
aa As	t ag n Ar	g ttg g Leu 155	GI	a ata y Ile	a aca • Thr	tac Tyr	aac Asn 155	Se	t cc r Pr	c ct o Le	c ac u Th	c ttg r Leu 156	G7	a a n A	ac sn	27602
ag Se	c gaa r Gl	a ctt u Leu 156		c cta a Lei	a gcg I Ala	gto Val	acc Thr 1570	гі	g cc Pr	t ct O Le	t ga u As	c act p Thr 157	_ A1	c aa a As	at sn	27647
aa Asi	c aca n Thi	a ctt r Leu 1580	Ă٦ä	g ctt a Leu	aaa Lys	acc Thr	gcc Ala 1585	Arc	CC1	t ata	a at e Il	t aca e Thr 159	As	c to	it er	27692
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							TOT	,				g ggg i Gly 1620	ct: Le	agt uVa	t 1	27782
		1625	5	9	να,	LCu	1630))	ASI	Pro) Lei	tac Tyr 1635	Lei	g ca u Gl	a n	27827
		1640	ctc Leu	tca Ser	cta Leu	gcc Ala	att Ile 1645	GIU	cgc Arg	cca Pro	ttg Lei	gct Ala 1650	Lei	a ac I Th	t r	27872
Thr	Thr	ggt Gly 1655	ser	мет		Met	Gln 1660	Ti6	tcc Ser	caa Gln	cca Pro	tta Leu 1665	Lys	ı gt Va	g	27917
0.0	Asp	gga Gly 1670	ser	tta Leu	agc Ser	ttg Leu	agc Ser 1675	att Ile	gaa Glu	agc Ser	cct Pro	cta Leu 1680	Asn	ct Le		27962
Lys	Asn	gga Gly 1685	Asn		• • • • • • • • • • • • • • • • • • • •	LCU	1690	rmr	GIN	Ser	Pro	cta Leu 1695	Thr	gt Va	î Î	28007
		1700		ctc Leu	agc Ser		aca Thr 1705	1111	aca Thr	gcc Ala	cca Pro	tta Leu 1710	acg Thr	gti Va	Ī	28052
Gin	Asn	aac Asn 1715	gct Ala	cta Leu	gcc Ala		tca Ser 1720	gtg Val	tta Leu	ctg Leu	ccg Pro	ctt Leu 1725	aga Arg	cta Lei	l I	28097
Phe	aat Asn	Asn 1730	acc Thr	tca Ser	ctg Leu	gga Gly	gtg Val 1735	gca Ala	ttc Phe	aac Asn	cca Pro	ccc Pro 1740	att Ile	tct Ser		28142
Ser	gca Ala	Asn 1745					1, 10	Ash	TIG	GIY	ASN	Gly 1755	ctt Leu			28187
Leu		Tyr 1760		•		:	1765	7311	TIG	GIY	GIY	1770	cta Leu	Gln		28232
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		cct Pro 1850)		,		1855	5	ınr	Leu	Trp	1860	Thi	a gca Ala	28502
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aga Arg	act Thr	aac Asn 1925	tac Tyr	ccc Pro	acg Thr	ttt Phe	gaa Glu 1930	7311	gaa Glu	ggc Gly	ata Ile	cta Leu 1935	gct Ala	agt Ser	28727
		aca Thr 1940	•		- ,	y	1945	Gly	ASII	ser	Ala	ASN 1950	Thr	aac Asn	28772
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gtt Val	aac Asn	aag Lys 1970	ggt Gly	act Thr	gag Glu	gtt Val	cag Gln 1975	aac Asn	atg Met	gaa Glu	ctc Leu	acc Thr 1980		act Thr	28862
ttc Phe	ttg Leu	cag Gln 1985	gga Gly	gac Asp	CCC Pro	Thr	atg Met 1990	gcc Ala	ata Ile	tca Ser	ttt Phe		gct Ala	att Ile	28907
tat Tyr	aac Asn		gct Ala	ttg Leu	gaa Glu	G i y	tac Tyr 2005	tct Ser	tta Leu	aaa Lys	Phe	acc Thr 2010	tgg Trp	cga Arg	28952
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Simian adenovirus

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35 40 45

Gly Arg Asn Ser Ile Arg Tyr Ser Glu Leu Ala Pro Leu Tyr Asp Thr 50 60

Thr Arg Val Tyr Leu Val Asp Asn Lys Ser Ala Asp Ile Ala Ser Leu 70 75 80

Asn Tyr Gln Asn Asp His Ser Asn Phe Leu Thr Thr Val Val Gln Asn 85 90 95

Asn Asp Phe Thr Pro Val Glu Ala Gly Thr Gln Thr Ile Asn Phe Asp $100 \hspace{1cm} 105 \hspace{1cm} 110$

Glu Arg Ser Arg Trp Gly Gly Asp Leu Lys Thr Ile Leu Arg Thr Asn 115 120 125

Met Pro Asn Ile Asn Glu Phe Met Ser Thr Asn Lys Phe Arg Ala Arg Page 124

130 135 140

Leu Met Val Glu Lys Val Asn Lys Glu Thr Asn Ala Pro Arg Tyr Glu 145 150 155 160 Trp Phe Glu Phe Thr Leu Pro Glu Gly Asn Tyr Ser Glu Thr Met Thr 165 170 175 Ile Asp Leu Met Asn Asn Ala Ile Val Asp Asn Tyr Leu Glu Val Gly 180 185 190 Arg Gln Asn Gly Val Leu Glu Ser Asp Ile Gly Val Lys Phe Asp Thr 195 200 205 Arg Asn Phe Arg Leu Gly Trp Asp Pro Val Thr Lys Leu Val Met Pro 210 220 Gly Val Tyr Thr Asn Glu Ala Phe His Pro Asp Ile Val Leu Leu Pro 235 240 Gly Cys Gly Val Asp Phe Thr Gln Ser Arg Leu Ser Asn Leu Leu Gly 245 250 255 Ile Arg Lys Arg Met Pro Phe Gln Ala Gly Phe Gln Ile Met Tyr Glu 265 270 Asp Leu Glu Gly Gly Asn Ile Pro Ala Leu Leu Asp Val Ala Lys Tyr 275 280 285 Glu Ala Ser Ile Gln Lys Ala Arg Glu Gln Gly Gln Glu Ile Arg Gly 290 300 Asp Asn Phe Thr Val Ile Pro Arg Asp Val Glu Ile Val Pro Val Glu 305 315 320 Lys Asp Ser Lys Asp Arg Ser Tyr Asn Leu Leu Pro Gly Asp Gln Thr 325 335 Asn Thr Ala Tyr Arg Ser Trp Phe Leu Ala Tyr Asn Tyr Gly Asp Pro 340 345 350 Glu Lys Gly Val Arg Ser Trp Thr Leu Leu Thr Thr Asp Val Thr 355 360 365 Cys Gly Ser Gln Gln Val Tyr Trp Ser Leu Pro Asp Met Met Gln Asp 370 380 Pro Val Thr Phe Arg Pro Ser Ser Gln Val Ser Asn Tyr Pro Val Val 385 395 400 Gly Val Glu Leu Leu Pro Val His Ala Lys Ser Phe Tyr Asn Glu Gln 405 410 415

Page 125

Ala Val Tyr Ser Gln Leu Ile Arg Gln Ser Thr Ala Leu Thr His Val 420 430

Phe Asn Arg Phe Pro Glu Asn Gln Ile Leu Val Arg Pro Pro Ala Pro 435 440 445

Thr Ile Thr Thr Val Ser Glu Asn Val Pro Ala Leu Thr Asp His Gly 450 460

Thr Leu Pro Leu Arg Ser Ser Ile Ser Gly Val Gln Arg Val Thr Ile 480

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Thr Leu Arg Phe Val Pro Val Asp Arg Glu Asp Thr Ala Tyr Ser Tyr 75 75 80

Lys Val Arg Phe Thr Leu Ala Val Gly Asp Asn Arg Val Leu Asp Met 85

Ala Ser Thr Tyr Phe Asp Ile Arg Gly Val Leu Asp Arg Gly Pro Ser 100 105 110

Phe Lys Pro Tyr Ser Gly Thr Ala Tyr Asn Ser Leu Ala Pro Lys Gly 125

Ala Pro Asn Pro Ser Glu Trp Lys Gly Ser Asp Asn Lys Ile Ser Val 130 135 140

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420 425 430

Leu Trp Arg Ser Phe Leu Tyr Ser Asn Val Ala Leu Tyr Leu Pro Asp 435 440 445

Glu Tyr Lys Leu Thr Pro Asp Asn Ile Thr Leu Pro Asp Asn Lys Asn 450 460

Thr Tyr Asp Tyr Met Asn Gly Arg Val Ala Ala Pro Ser Ser Leu Asp 470 475 480

Thr Tyr Val Asn Ile Gly Ala Arg Trp Ser Pro Asp Pro Met Asp Asn 485 490 495

Val Asn Pro Phe Asn His His Arg Asn Ala Gly Leu Arg Tyr Arg Ser 500 505 510

Met Leu Gly Asn Gly Arg Tyr Val Pro Phe His Ile Gln Val Pro 515 520 525

Gln Lys Phe Phe Ala Ile Lys Asn Leu Leu Leu Pro Gly Ser Tyr
530 540

Thr Tyr Glu Trp Asn Phe Arg Lys Asp Val Asn Met Ile Leu Gln Ser 555

Ser Leu Gly Asn Asp Leu Arg Val Asp Gly Ala Ser Val Arg Phe Asp 575

Ser Ile Asn Leu Tyr Ala Asn Phe Phe Pro Met Ala His Asn Thr Ala 580 585 590

Ser Thr Leu Glu Ala Met Leu Arg Asn Asp Thr Asn Asp Gln Ser Phe 595 600

Asn Asp Tyr Leu Cys Ala Ala Asn Met Leu Tyr Pro Ile Pro Ala Asn 610 620

Ala Thr Ser Val Pro Ile Ser Ile Pro Ser Arg Asn Trp Ala Ala Phe 625 630 635

Arg Gly Trp Ser Phe Thr Arg Leu Lys Thr Lys Glu Thr Pro Ser Leu 645 650

Gly Ser Gly Phe Asp Pro Tyr Phe Thr Tyr Ser Gly Ser Ile Pro Tyr 660 665

Leu Asp Gly Thr Phe Tyr Leu Asn His Thr Phe Lys Lys Val Ser Ile 685

Met Phe Asp Ser Ser Val Ser Trp Pro Gly Asn Asp Arg Leu Leu Thr 690 700 Page 128

Pro Asn Glu Phe Glu Ile Lys Arg Thr Val Asp Gly Glu Gly Tyr Asn 705 710 715 720 Val Ala Gln Cys Asn Met Thr Lys Asp Trp Phe Leu Ile Gln Met Leu 725 730 735 Ser His Tyr Asn Ile Gly Tyr Gln Gly Phe Tyr Val Pro Glu Gly Tyr 740 745 750 Lys Asp Arg Met Tyr Ser Phe Phe Arg Asn Phe Gln Pro Met Ser Arg 755 760 765 Gln Val Val Asp Thr Thr Thr Tyr Thr Asp Tyr Lys Asn Val Thr Leu 770 780 Pro Phe Gln His Asn Asn Ser Gly Phe Val Gly Tyr Met Gly Pro Thr 785 795 800 Met Arg Glu Gly Gln Ala Tyr Pro Ala Asn Tyr Pro Tyr Pro Leu Ile 805 810 815 Gly Lys Thr Ala Val Pro Ser Leu Thr Gln Lys Lys Phe Leu Cys Asp 820 830 Arg Thr Met Trp Arg Ile Pro Phe Ser Ser Asn Phe Met Ser Met Gly 835 840 845 Ala Leu Thr Asp Leu Gly Gln Asn Met Leu Tyr Ala Asn Ser Ala His 850 860 Ala Leu Asp Met Thr Phe Glu Val Asp Pro Met Asp Glu Pro Thr Leu 865 870 885 Leu Tyr Val Leu Phe Glu Val Phe Asp Val Val Arg Ile His Gln Pro 885 890 895 His Arg Gly Val Ile Glu Ala Val Tyr Leu Arg Thr Pro Phe Ser Ala 900 910 Gly Asn Ala Thr Thr 915

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PRT Simian adenovirus

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70 75 80 Ser Val Leu Val Thr Pro Pro Ile Thr Lys Ala Asn Asn Thr Ile Gly 85 90 95 Leu Ala Phe Asn Ala Pro Leu Thr Leu Gln Ser Asp Thr Leu Asn Leu 100 105 110 Ala Cys Asn Ala Pro Leu Thr Val Gln Asp Asn Arg Leu Gly Ile Thr 115 120 125 Tyr Asn Ser Pro Leu Thr Leu Gln Asn Ser Glu Leu Ala Leu Ala Val 130 140 Thr Pro Pro Leu Asp Thr Ala Asn Asn Thr Leu Ala Leu Lys Thr Ala 150 155 160 Arg Pro Ile Ile Thr Asn Ser Asn Asn Glu Leu Thr Leu Ser Ala Asp 165 170 175 Ala Pro Leu Asn Thr Ser Thr Gly Thr Leu Arg Leu Gln Ser Ala Ala 180 185 190 Pro Leu Gly Leu Val Asp Gln Thr Leu Arg Val Leu Phe Ser Asn Pro 195 200 205 Leu Tyr Leu Gln Asn Asn Phe Leu Ser Leu Ala Ile Glu Arg Pro Leu 210 215 220 Ala Leu Thr Thr Gly Ser Met Ala Met Gln Ile Ser Gln Pro Leu 225 230 235 Lys Val Glu Asp Gly Ser Leu Ser Leu Ser Ile Glu Ser Pro Leu Asn 245 250 255 Leu Lys Asn Gly Asn Leu Thr Leu Gly Thr Gln Ser Pro Leu Thr Val 260 265 270 Thr Gly Asn Asn Leu Ser Leu Thr Thr Thr Ala Pro Leu Thr Val Gln 285 Asn Asn Ala Leu Ala Leu Ser Val Leu Leu Pro Leu Arg Leu Phe Asn Page 130

290

295

300

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